

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 2    | "6885644"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/11/04 09:54 |
| L2    | 3    | stable adj adapter adj membership<br>adj group  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/11/04 09:57 |
| L3    | 0    | stable adj node adj membership adj<br>group   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/11/04 09:57 |
| L4    | 0    | stable adj node adj group   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/11/04 09:57 |
| L5    | 5    | (US-20020049845-\$).did. or<br>(US-5793962-\$ or US-6138251-\$ or<br>US-6195760-\$ or US-6411967-\$).<br>did. | US-PGPUB;<br>USPAT  | OR               | OFF     | 2005/11/04 09:58 |
| L6    | 2    | "20030158936"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/11/04 11:25 |
| L7    | 4333 | 709/224.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/11/04 12:54 |
| L8    | 2823 | 709/227.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/11/04 12:54 |

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| L9  | 4333 | 709/224.ccls.                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 12:54 |
| L10 | 1716 | 709/230.ccls.                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 12:54 |
| L11 | 2031 | 709/225.ccls.                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 12:54 |
| L12 | 985  | 709/249.ccls.                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 12:54 |
| L13 | 0    | previous adj membership adj first<br>adj node  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:06 |
| L14 | 2    | "6885644"                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L15 | 3    | stable adj adapter adj membership<br>adj group | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L16 | 0    | stable adj node adj membership adj<br>group    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |

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| L17 | 0    | stable adj node adj group   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L18 | 5    | (US-20020049845-\$).did. or<br>(US-5793962-\$ or US-6138251-\$ or<br>US-6195760-\$ or US-6411967-\$).<br>did. | US-PGPUB;<br>USPAT  | OR | OFF | 2005/11/04 13:08 |
| L19 | 2    | "20030158936"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L20 | 4333 | 709/224.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L21 | 2823 | 709/227.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L22 | 4333 | 709/224.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L23 | 1716 | 709/230.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L24 | 2031 | 709/225.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L25 | 985  | 709/249.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |

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| L26 | 0  | previous adj membership adj first<br>adj node   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L27 | 2  | "20030158936"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L28 | 49 | ("6493715" "6363495" "6195565"<br>"6178172" "6212188" "6212188"<br>"5831975" "4925311" "5331637"<br>"6092220" "6765892" "5355371"<br>"5946316" "6185698" "6460039"<br>"6574749" "6625652" "6839752"<br>"5661720" "5940385" "6393485"<br>"6438705" "5895474" "4819208"<br>"5748882" "4977499" "6389476"<br>"6111886" "5596437" "6259676"<br>"6262984" "6147971" "5398012"<br>"6532494" "6493716" "6081657"<br>"6062343" "6385084" "5373553"<br>"6260185" "5327426" "4965511"<br>"5560008" "5627969" "5634110"<br>"6115753" "6128762" "6483808"<br>"5305424" "5634011").pn. | USPAT   | OR | OFF | 2005/11/04 13:08 |
| L29 | 50 | ("5668877" "5768523" "5768524"<br>"5781737" "5781736" "5793977"<br>"5857076" "5881246" "5991821"<br>"5995503" "5996087" "6026167"<br>"6026447" "6038677" "6091820"<br>"6154765" "6192401" "6243384"<br>"6321270" "6389451" "6418426"<br>"6748381" "6831918" "6097729"<br>"4554646" RE33280 "5530841"<br>"5581781" "5661661" "5680318"<br>"5691911" "5737574" "5757303"<br>"5953235" "6075477" "6111811"<br>"6430189" "6505323" "5894431"<br>"6154220" "5224212" "5923840"<br>"5968189" "5574848" "5860130"<br>"6233074" "4933846" "6111894"<br>"5612959" "5912881").pn.   | USPAT   | OR | OFF | 2005/11/04 13:08 |
| L30 | 2  | "20020169861"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |

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| L31 | 4333 | 709/224.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L32 | 1716 | 709/230.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L33 | 2031 | 709/225.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L34 | 985  | 709/249.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L35 | 2    | ((L7 L10 L11 L12) and ((group near membership) and (liveness near status))) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L36 | 2    | ((group near membership) and (liveness near status))                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L37 | 31   | ((group near membership) and (liveness))                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L38 | 2    | ((control\$4 near group near membership) and (liveness))                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |

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| L39 | 14   | (control near group near membership)                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L40 | 375  | (heartbeat heart adj beat) and ping and (lan wan internet network) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L41 | 2823 | 709/227.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L42 | 1673 | 714/25.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L43 | 981  | 714/47.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L44 | 2027 | L8 and @ad<"20020215"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L45 | 9    | L44 and (hearbeat heart adj beat)                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L46 | 0    | (search\$4 near for near node\$2) and (heart heartbeat)            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |

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| L47 | 0    | (search\$4 near for near node\$2)                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L48 | 2432 | (search\$4 near node\$2)                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L49 | 63   | (search\$4 near node\$2)and (heart<br>heartbeat)            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L50 | 43   | L49 and @ad<="20020215"                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L51 | 4    | (search\$4 near node\$2)and ((heart<br>adj beat) heartbeat) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L52 | 40   | node near reachability                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L53 | 20   | L52 and @ad<="20020215"                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L54 | 45   | detecting near conditions near<br>change                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |

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| L55 | 34 | L54 and @ad<="20020215"                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L56 | 34 | (detect near node near failure\$2)<br>and @ad<="20020215" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L57 | 8  | (adding near nodes) and (group<br>near membership)        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L58 | 5  | (adding near nodes) and (liveness)                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L59 | 1  | "6855644"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L60 | 18 | "6195760"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L61 | 14 | "6061723"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L62 | 9  | "5946498"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |



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| L63 | 2   | method near detect\$4 near reachability | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L64 | 37  | request near join near node             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L65 | 793 | node near detection                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L66 | 535 | L65 and @ad<="20020215"                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L67 | 14  | L66 and join                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L68 | 535 | L65 and @ad<="20020215"                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L69 | 0   | L66 and (message near rejection)        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L70 | 0   | L66 and (message with rejection)        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |

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| L71 | 6  | L66 and (rejection)        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L72 | 82 | L66 and (join add)         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L73 | 0  | L66 and (add near network) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L74 | 14 | L66 and (add with network) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L75 | 9  | L66 and (membership)       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L76 | 5  | "077051"                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L77 | 6  | L66 and (deny)             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L78 | 0  | L66 and (refuse)           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |

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| L79 | 10  | L66 and (reject)                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L80 | 12  | L66 and (rejected)              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L81 | 160 | L66 and (multiple attemps)      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L82 | 0   | L66 and (multiple with attemps) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L83 | 0   | L66 and (multiple same attemps) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L84 | 0   | L66 and (multiple and attemps)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L85 | 38  | L66 and (multiple and attemps)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L86 | 0   | L66 and (multiple near attemps) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |

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| L87 | 4  | L66 and (multiple same attempts)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L88 | 39 | (US-20010019554-\$ or<br>US-20010039548-\$ or<br>US-20020042830-\$ or<br>US-20020049845-\$ or<br>US-20020062217-\$ or<br>US-20020165964-\$ or<br>US-20020165977-\$ or<br>US-20020169861-\$ or<br>US-20030014480-\$ or<br>US-20030014526-\$ or<br>US-20030158936-\$ or<br>US-20030177213-\$).did. or<br>(US-5109384-\$ or US-5787249-\$ or<br>US-5787250-\$ or US-5790772-\$ or<br>US-5793962-\$ or US-5941955-\$ or<br>US-6061723-\$ or US-6111886-\$ or<br>US-6138251-\$ or US-6195760-\$ or<br>US-6216150-\$ or US-6311218-\$ or<br>US-6389431-\$ or US-6411967-\$ or<br>US-6424620-\$ or US-6453438-\$ or<br>US-6493715-\$ or US-6507863-\$ or<br>US-6625652-\$ or US-6633538-\$ or<br>US-6694369-\$ or US-6732189-\$ or<br>US-6735200-\$ or US-6826182-\$ or<br>US-6851053-\$).did. or<br>(US-5946498-\$ or<br>WO-2003013065-\$).did. | US-PGPUB;<br>USPAT;<br>DERWENT                                    | OR | OFF | 2005/11/04 13:08 |
| L89 | 20 | L88 and (stable previous)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L90 | 2  | "6694369"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L91 | 2  | "20020062217"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |

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| L92 | 1  | L88 and (stable same previous)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L93 | 2  | L88 and (stable and previous)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L94 | 19 | L88 and fail  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| L95 | 34 | L88 and fail\$  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/11/04 13:08 |
| S1  | 2  | "20030158936"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/21 13:04 |
| S2  | 49 | ("6493715" "6363495" "6195565"<br>"6178172" "6212188" "6212188"<br>"5831975" "4925311" "5331637"<br>"6092220" "6765892" "5355371"<br>"5946316" "6185698" "6460039"<br>"6574749" "6625652" "6839752"<br>"5661720" "5940385" "6393485"<br>"6438705" "5895474" "4819208"<br>"5748882" "4977499" "6389476"<br>"6111886" "5596437" "6259676"<br>"6262984" "6147971" "5398012"<br>"6532494" "6493716" "6081657"<br>"6062343" "6385084" "5373553"<br>"6260185" "5327426" "4965511"<br>"5560008" "5627969" "5634110"<br>"6115753" "6128762" "6483808"<br>"5305424" "5634011").pn. | USPAT   | OR | OFF | 2005/04/21 11:11 |

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|----|------|---|---|----|-----|------------------|
| S3 | 50   | ("5668877" "5768523" "5768524"<br>"5781737" "5781736" "5793977"<br>"5857076" "5881246" "5991821"<br>"5995503" "5996087" "6026167"<br>"6026447" "6038677" "6091820"<br>"6154765" "6192401" "6243384"<br>"6321270" "6389451" "6418426"<br>"6748381" "6831918" "6097729"<br>"4554646" RE33280 "5530841"<br>"5581781" "5661661" "5680318"<br>"5691911" "5737574" "5757303"<br>"5953235" "6075477" "6111811"<br>"6430189" "6505323" "5894431"<br>"6154220" "5224212" "5923840"<br>"5968189" "5574848" "5860130"<br>"6233074" "4933846" "6111894"<br>"5612959" "5912881").pn. | USPAT   | OR | OFF | 2005/04/21 11:11 |
| S4 | 2    | "20020169861"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/21 13:04 |
| S5 | 3822 | 709/224.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 09:44 |
| S6 | 1549 | 709/230.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 08:54 |
| S7 | 1769 | 709/225.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 08:54 |
| S8 | 900  | 709/249.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 08:54 |
| S9 | 2    | (S5 S6 S7 S8) and ((group near<br>membership) and (liveness near<br>status))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 08:58 |

|     |      |  |   |    |     |                  |
|-----|------|--|---|----|-----|------------------|
| S10 | 2    | ((group near membership) and (liveness near status))               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 08:58 |
| S11 | 26   | ((group near membership) and (liveness))                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 09:22 |
| S12 | 2    | ((control\$4 near group near membership) and (liveness))           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 09:23 |
| S13 | 13   | (control near group near membership)                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 09:42 |
| S14 | 336  | (heartbeat heart adj beat) and ping and (lan wan internet network) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 09:44 |
| S15 | 2491 | 709/227.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 09:52 |
| S16 | 1582 | 714/25.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 09:52 |
| S17 | 904  | 714/47.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 09:52 |

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|-----|------|---|---|----|-----|------------------|
| S18 | 1893 | S15 and @ad<"20020215"                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 09:53 |
| S19 | 8    | S18 and (heartbeat heart adj beat)                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 14:32 |
| S20 | 0    | (search\$4 near for near node\$2)<br>and (heart heartbeat)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 14:33 |
| S21 | 0    | (search\$4 near for near node\$2)                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 14:33 |
| S22 | 2190 | (search\$4 near node\$2)                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 14:33 |
| S23 | 57   | (search\$4 near node\$2)and (heart<br>heartbeat)            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 14:37 |
| S24 | 42   | S23 and @ad<="20020215"                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 14:33 |
| S25 | 3    | (search\$4 near node\$2)and ((heart<br>adj beat) heartbeat) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 14:40 |



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| S26 | 33 | node near reachability                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 14:40 |
| S27 | 18 | S26 and @ad<="20020215"                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 14:52 |
| S28 | 42 | detecting near conditions near change                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 14:53 |
| S29 | 34 | S28 and @ad<="20020215"                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 15:10 |
| S30 | 33 | (detect near node near failure\$2) and @ad<="20020215" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/22 15:10 |
| S31 | 5  | (adding near nodes) and (group near membership)        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 11:59 |
| S32 | 4  | (adding near nodes) and (liveness)                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 13:29 |
| S33 | 1  | "6855644"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 13:40 |

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|-----|-----|--|---|----|-----|------------------|
| S34 | 18  | "6195760"                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 13:41 |
| S35 | 10  | "6061723"                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 13:42 |
| S36 | 8   | "5946498"                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 14:28 |
| S37 | 2   | method near detect\$4 near<br>reachability | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/25 14:28 |
| S38 | 33  | request near join near node                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 08:50 |
| S39 | 728 | node near detection                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 08:50 |
| S40 | 524 | S39 and @ad<="20020215"                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 11:27 |
| S41 | 14  | S40 and join                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 09:06 |

|     |    |                                  |   |    |     |                  |
|-----|----|----------------------------------|---|----|-----|------------------|
| S42 | 0  | S40 and (message near rejection) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 09:07 |
| S43 | 0  | S40 and (message with rejection) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 09:07 |
| S44 | 6  | S40 and (rejection)              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 09:08 |
| S45 | 78 | S40 and (join add)               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 09:09 |
| S46 | 0  | S40 and (add near network)       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 09:09 |
| S47 | 14 | S40 and (add with network)       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 10:15 |
| S48 | 9  | S40 and (membership)             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 13:15 |
| S49 | 5  | "077051"                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 11:24 |

|     |     |                                 |   |    |     |                  |
|-----|-----|---------------------------------|---|----|-----|------------------|
| S50 | 5   | S40 and (deny)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 11:31 |
| S51 | 0   | S40 and (refuse)                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 11:31 |
| S52 | 10  | S40 and (reject)                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 11:46 |
| S53 | 12  | S40 and (rejected)              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 11:51 |
| S54 | 157 | S40 and (multiple attemps)      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 13:15 |
| S55 | 0   | S40 and (multiple with attemps) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 13:16 |
| S56 | 0   | S40 and (multiple same attemps) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 13:16 |
| S57 | 0   | S40 and (multiple and attemps)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 13:16 |

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|-----|----|---|---|----|-----|------------------|
| S58 | 37 | S40 and (multiple and attempts)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 13:16 |
| S59 | 0  | S40 and (multiple near attempts)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 13:16 |
| S60 | 4  | S40 and (multiple same attempts)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/04/26 13:16 |
| S61 | 39 | (US-20010019554-\$ or<br>US-20010039548-\$ or<br>US-20020042830-\$ or<br>US-20020049845-\$ or<br>US-20020062217-\$ or<br>US-20020165964-\$ or<br>US-20020165977-\$ or<br>US-20020169861-\$ or<br>US-20030014480-\$ or<br>US-20030014526-\$ or<br>US-20030158936-\$ or<br>US-20030177213-\$).did. or<br>(US-5109384-\$ or US-5787249-\$ or<br>US-5787250-\$ or US-5790772-\$ or<br>US-5793962-\$ or US-5941955-\$ or<br>US-6061723-\$ or US-6111886-\$ or<br>US-6138251-\$ or US-6195760-\$ or<br>US-6216150-\$ or US-6311218-\$ or<br>US-6389431-\$ or US-6411967-\$ or<br>US-6424620-\$ or US-6453438-\$ or<br>US-6493715-\$ or US-6507863-\$ or<br>US-6625652-\$ or US-6633538-\$ or<br>US-6694369-\$ or US-6732189-\$ or<br>US-6735200-\$ or US-6826182-\$ or<br>US-6851053-\$).did. or<br>(US-5946498-\$ or<br>WO-2003013065-\$).did. | US-PGPUB;<br>USPAT;<br>DERWENT                                    | OR | OFF | 2005/08/20 10:10 |
| S62 | 20 | S61 and (stable previous)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/08/20 10:13 |

|     |    |                                |   |    |     |                  |
|-----|----|--------------------------------|---|----|-----|------------------|
| S63 | 2  | "20020062217"                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/08/20 10:12 |
| S64 | 2  | "6694369"                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/08/20 10:12 |
| S65 | 1  | S61 and (stable same previous) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/08/20 10:13 |
| S66 | 2  | S61 and (stable and previous)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/08/20 10:18 |
| S67 | 19 | S61 and fail                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/08/20 10:18 |
| S68 | 34 | S61 and fail\$                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/08/20 10:18 |